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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,946	02/27/2004	Adrian Buckley	1578.122 (11764-US-PAT)	5765
44208	7590	03/30/2011	EXAMINER	
DOCKET CLERK Kelly-Krause PO BOX 12608 DALLAS, TX 75225			HOANG, HIEU T	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/789,946	<b>Applicant(s)</b> BUCKLEY ET AL.	
	<b>Examiner</b> HIEU HOANG	<b>Art Unit</b> 2452	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 February 2011.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-15,17-20 and 31-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 3-15, 17-20, 31-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. This office action is in response to the amendment filed on 02/03/2011.
2. Claims 1, 3-15, 17-20, 31-34 are pending.

### ***Response to Arguments***

3. Previous claim objections and 35 U.S.C. 112 rejections have been withdrawn.
4. Applicant's arguments have been fully considered but are moot in view of new ground of rejection.

### ***Claim Objections***

5. Claim 18 seems to have a typographical error. Correction is required.
6. Claims 32, 34 are objected to because of the following informalities: "the first listing" lacks antecedent basis. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject *matter* sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**8. Claims 1, 3-7, 9-15, 17-20, 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jorma et al. (EP 0,781,064 A2, hereafter Jorma, cited in IDS), in view of Gopikanth (US 2003/0129971)**

9. For claim 1, Jorma discloses an apparatus for a radio communication system having a mobile node selectably operable at least to communicate packet data with a network part, the network part comprised of a plurality of network portions, a first network portion of the plurality forming a home network associated with the mobile node, said apparatus for at least facilitating selection of with which network portion of the plurality of network portions that the mobile node communicates, said apparatus comprising:

a storage element embodied at the mobile node, said storage element for storing values defining a database (fig. 24, mobile device memory's database with service list), the database forming a listing identifying at least selected ones of the plurality of network portions together with an indication associated therewith of network-portion capability to provide packet data connectivity with the mobile node to communicate packet data therewith (col. 6 lines 16-31, list of networks available at the mobile device that supports certain services or capabilities such as data services), the listing dynamically updateable (abstract, search and update network list with new networks);

a selector adapted to access the database defined at said storage element, said selector for selecting through which of the network portions of the plurality of network

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portions to communicate the packet data, selection made by said selector at least in part dependent upon the listing formed of the database defined at said storage element (col. 5 lines 15-20, select a packet data supported service from a list).

Jorma does not disclose a detector coupled to the storage element and adapted to receive a message from a second network portion identifying values associated with the second network and to responsively alter the values stored in the storage element to alter the indication of network-portion capability of the second network portion of the listing when the message is of values identifying a second network-portion capability to be different than identified in the listing; storing the altered values stored in the storage element.

Gopikanth discloses a detector coupled to the storage element and adapted to receive a message from a second network portion identifying values associated with the second network ([0021]-[0029], each PLMN can broadcast the system information with class of service or CoS) and to responsively alter the values stored in the storage element to alter the indication of network-portion capability of the second network portion of the listing when the message is of values identifying a second network-portion capability to be different than identified in the listing ([0037]-[0039], [0043], mobile station MS compiles a list of discovered PLMNs and their CoSs on top of a previous stored list of PLMNs and home PLMNs); and storing the altered values stored in the storage element ([0038], [0041], storing the discovered PLMNs in a list).

It would have been obvious to one skilled in the art at the time of the invention to update the network list of Jorma with newly discovered networks with capabilities as

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taught by Gopikanth. The motivation would be to choose a network that will meet the bandwidth needs of the mobile station while efficiently utilizing bandwidth resource (Gopikanth, [0009]).

10. For claim 3, Jorma-Gopikanth further discloses the network part broadcasts the messages delivered to the mobile node, and wherein said detector selectably detects broadcasts of the messages by the network part (Gopikanth, [0021]-[0029], each PLMN can broadcast the system information with class of service or CoS).

11. For claim 4, Jorma-Gopikanth further discloses at least selected ones of the network portions of the network part broadcast messages of the values identifying the network portion capabilities, a selected message broadcast by a selected network part containing values identifying the network portion capabilities of the selected network portion from which the message is broadcast (Gopikanth, [0021]-[0029]).

12. For claim 5, Jorma-Gopikanth further discloses the selected message broadcast by the selected network portion is further of values identifying the network portion from which the message is broadcast (Gopikanth, [0021]-[0029], fig. 3, PLMN ID).

13. For claim 6, Jorma-Gopikanth further discloses each network portion of the plurality of network portions is identified by an identification code and wherein the

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values identifying the network portion contained in the selected message comprises the identification code (Gopikanth, [0021]-[0029], fig. 3).

14. For claim 7, Jorma-Gopikanth further discloses the radio communication system comprises a cellular communication system operable generally pursuant to a GSM (Global System for Mobile communications) operating protocol that defines mobile country codes and mobile network codes and wherein the values identifying the network portion contained in the selected message comprise a mobile country code and a mobile network code associated with the network portion from which the message is broadcast (Jorma, col. 2 lines 39-49, network ID comprises country codes and network codes, col. 8 line 24, GSM).

15. For claim 9, Jorma-Gopikanth further discloses said detector is further coupled to said storage element, said detector further for storing at least selected values that define the database at said storage element (Gopikanth, [0038]-[0039], storing networks at the MS).

16. For claim 10, Jorma-Gopikanth further discloses said detector further selectably removes values from the database defined at said storage element (Gopikanth, [0043]).

17. For claim 11, Jorma-Gopikanth further discloses the database defined at said storage element further indicates availability of the at least selected ones of the plurality

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of network portions through which to communicate the packet data (Jorma, fig. 9B, packet data service).

18. For claim 12, Jorma-Gopikanth further discloses the mobile node is further selectably for communicating voice data and wherein the listing formed of the database defined at said storage element further identifies the at least selected ones of the plurality of network portions together with an indication associated therewith of network-portion capability to provide voice data connectivity with the mobile node to communicate voice data therewith (Jorma, fig. 12A, cellular network for voice).

19. For claim 13, Jorma-Gopikanth further discloses said selector is further selectably for selecting through which of the network portions of the plurality of network portions to communicate the voice data (Jorma, fig. 12A).

20. For claim 14, Jorma-Gopikanth further discloses the database forming the listing defined at said storage element is created by downloading thereto of a central database directory (Gopikanth, fig. 4, home PLMN provides PLMNs), the database selectably updatable thereafter (Jorma, col. 4, l. 40-50).

21. For claim 33, Jorma-Gopikanth further discloses the operation of receiving messages is further performed subsequent to the operation of storing and wherein the



operations of receiving and storing are iteratively performed (Jorma, col. 4 lines 46-51, update a currently stored list, Gopikanth, [0037], [0043], search periodically).

22. For claim 15, the claim is rejected for the same rationale as in claim 1.

23. For claim 17, Jorma-Gopikanth further discloses said operation of detecting is further performed subsequent to said operation of storing and wherein said operations of detecting and storing are iteratively performed (Gopikanth, [0037]).

24. For claim 18, Jorma-Gopikanth further discloses the operation, prior to said operation, prior to said operation of detecting, of sending the messages to the mobile node (Gopikanth, ([0021]-[0029])).

25. For claim 19, Jorma-Gopikanth further discloses the messages detected during said operation of detecting are sent to the mobile node by selected network portions and wherein values contained in the messages are selectably stored during said operation of storing (Gopikanth, ([0021]-[0029], [0038]-[0039])).

26. For claim 20, Jorma-Gopikanth further discloses the messages detected during said operation of detecting identify the network portion capabilities of associated network portions of the selected network portions (Gopikanth, ([0021]-[0029])).

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**27. Claims 32, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gopikanth in view of Whelan et al. (US 7,606,242, hereafter Whelan).**

28. For claim 32, Gopikanth discloses a method in a mobile node capable of packet data communication with a network part, for selecting a radio access network of a plurality of radio access networks in the network part, the network part storing values defining a first database in a central database and the mobile node storing values defining a second database in a storage element, the first and second databases each forming a listing identifying available radio access networks of the plurality of radio access networks together with an indication associated therewith of radio access network capability to provide packet data communication with the mobile node, the method characterized by:

detecting messages received from a second radio access networks when the mobile device is not a party to a communication session ([0037], powering up or roaming), the messages having values identifying the radio access network capabilities of the second radio access network ([0021]-[0029]);

dynamically altering the indication of the second radio access network capability of the listing in the second database when a message is of values identifying the second radio access network capabilities to be different from those identified in the listing ([0037]-[0039], [0043], mobile station MS compiles a list of discovered PLMNs and their CoSs on top of a previous stored list of PLMNs and home PLMNs);

selecting a radio access network from the available radio access networks for packet data communication based upon the listing formed of the database defined during said operation of storing and altering ([0043], selecting a best PLMN).

Gopikanth does not disclose: providing the altered indication of the second radio access network capability to the first listing in the central database.

However, in the same field of endeavor, Whelan discloses synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Gopikanth. The motivation would be to keep databases of the mobile device and the central database synchronized.

29. For claim 34, Gopikanth discloses a mobile node capable of packet data communication with a network part configured to select a radio access network of a plurality of radio access networks in the network part, the network part storing values defining a first database in a central database and the mobile node configured to store values defining a second database in a storage element, the first and second databases each forming a listing identifying available radio access networks of the plurality of radio access networks together with an indication associated therewith of radio access network capability to provide packet data communication with the mobile node, the mobile node characterized by:

a detector coupled to the storage element, the receiver configured to receive messages from a second radio access network of the available radio access networks when the mobile is not a party to a communication session ([0014], fig. 3, step 2, initialization state or not in session), the messages having values identifying the radio access network capabilities of the second radio access network ([0021]-[0029]); the detector further configured to alter the indication of the second radio access network capability of the listing when a message is of values identifying the second radio access network capabilities to be different from those identified in the listing, the listing dynamically updateable ([0037]-[0039], [0043], mobile station MS compiles a list of discovered PLMNs and their CoSs on top of a previous stored list of PLMNs and home PLMNs).

a selector coupled to the detector and the storage element, the selector configured to select a radio access network from the available radio access networks for packet data communication based upon the listing formed of the database defined in the storage element and the alteration made by the detector altering ([0043], selecting a best PLMN).

Gopikanth does not disclose: a provider to provide the altered indication of the second radio access network capability to the first listing in the central database.

In the same field of endeavor, Whelan discloses synchronizing between mobile unit association list (fig. 1, col. 8 l. 33-40, synchronizing between mobile unit list 34 and central database of roaming control server 12 association lists 16)

It would have been obvious to one skilled in the art at the time of the invention to apply synchronization of association lists of Whelan to Gopikanth. The motivation would be to keep databases of the mobile device and the central database synchronized.

**30. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gopikanth-Whelan, in view of Bridges et al. (US 2003/0186685, hereafter Bridges).**

31. For claim 31, Gopikanth-Whelan discloses a receive part configured to receive a central database listing (Gopikanth, fig. 4, home PLMN provides PLMNs). Gopikanth-Whelan does not disclose the central database listing having an identity of a network, a roaming indication.

Bridges discloses the same ([0085], download a PSL/IRDB from a central database to a mobile device, [0085], PSL/IRDB, system identification list, roaming, table 18 roaming indicator)

It would have been obvious to one skilled in the art at the time of the invention to apply central database for management of networks as in Bridges to the invention of Gopikanth-Whelan. The motivation would be to provide a central database that can manage subscriber's network information as taught by Bridges ([0074])

**32. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jorma-Gopikanth, in view of Raghuram et al. (US 2004/0224689, hereafter Raghuram).**

33. For claim 8, Jorma-Gopikanth does not disclose each network portion of the at least selected ones of the network portions broadcast the messages upon broadcast channels of a set of broadcast channels and wherein said detector further selectably scans the broadcast channels of the set of broadcast channels to detect the broadcasts of the messages by the selected ones of the network portion.

Raghuram discloses the same ([0023])

It would have been obvious to one skilled in the art at the time of the invention to apply scanning all broadcast frequencies in order to detect new networks as in Raghuram to Jorma-Gopikanth and therefore take advantage of Raghuram's method such as saving battery power (abstract).

### ***Conclusion***

34. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

35. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thu Nguyen can be reached on 571-272-6967. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrice L Winder/  
Primary Examiner, Art Unit 2452

/H. H./

Examiner, Art Unit 2452